

IN THE CLAIMS

Claim 1 (cancelled)

Claim 2 (cancelled)

Claim 3 (currently amended): The system of claim [[1]] Z, further comprising:
a processor coupled to the photon detector for generating a thermal distribution of the electronic device based on information received from the photon detector.

Claim 4 (currently amended): The system of claim [[1]] Z, wherein the coolant comprises any one of water and a cold gas.

Claim 5 (currently amended): The system of claim [[1]] Z, wherein the coolant comprises at least one of any alkanes and perfluoroalkanes.

Claim 6 (currently amended): The system of claim [[1]] Z, wherein the coolant is a non-polar liquid comprising any one of perfluoro-octane, perfluoro-hexane, octane, hexane and carbon tetrachloride.

Claim 7 (currently amended): A system for measuring thermal distributions of an electronic device during operation, comprising:

a duct adapted to be coupled with an electronic device ~~The system of claim 4~~
, wherein the electronic device forms one side of the duct;
a coolant flowing through the duct so as to cool the electronic device; and
a photon detector located adjacent to the duct for detecting photons emitted from the electronic device, wherein the duct and the coolant are at least partially transparent to photons with wavelengths between about 0.1 micron to 20 microns.

Claim 8 (currently amended): The system of claim [[1]] Z, wherein the duct comprises any one of polished silicon, quartz, sapphire, glass and diamond.

Claim 9 (currently amended): The system of claim [[1]] 7, wherein the photon detector captures thermal information from the electronic device during operation of the electronic device, wherein the electronic device is operating under conditions for which the electronic device is designed.

Claim 10 (currently amended): The system of claim [[1]] 7, wherein the photon detector is an infrared camera.

Claim 11 (withdrawn): The system of claim 1, wherein the photon detector detects photons reflected from the electronic device.

Claim 12 (withdrawn): The system of claim 1, wherein the photon-detector detects photons comprising the luminescence from the electronic device.

Claim 13 (cancelled)

Claim 14 (cancelled)

Claim 15 (currently amended): The method of claim [[13]] 19, further comprising:
generating a thermal distribution of the electronic device based on information received from the photon detector.

Claim 16 (currently amended): The method of claim [[13]] 19, wherein the coolant comprises any one of water and a cold gas.

Claim 17 (currently amended): The method of claim [[13]] 19, wherein the coolant comprises at least one of any alkanes and perfluoroalkanes.

Claim 18 (currently amended): The method of claim [[13]] 19, wherein the coolant is a non-polar liquid comprising any one of perfluoro-octane, perfluoro-hexane, octane, hexane, and carbon tetrachloride.

Claim 19 (currently amended): A method for detecting thermal distributions of an electronic device during operation, the method comprising:

detecting, by a photon-detector, photons from an electronic device during operation of the electronic device, the photon detector located adjacent to a duct that is adjacent to the electronic device ~~The method of claim 13~~, wherein the electronic device forms one side of the duct and a coolant flows through the duct so as to cool the electronic device and the duct and the coolant are at least partially transparent to photons with wavelengths between about 0.1 micron to 20 microns.

Claim 20 (currently amended): The method of claim ~~[[13]]~~ 19, wherein the duct comprises any one of polished silicon, quartz, sapphire, glass and diamond.

Claim 21 (currently amended): The method of claim ~~[[13]]~~ 19, wherein the photon detector captures thermal information from the electronic device during operation of the electronic device, wherein the electronic device is operating under conditions for which the electronic device is designed.

Claim 22 (currently amended): The method of claim ~~[[13]]~~ 19, wherein photon detector is an infrared camera.

Claim 23 (withdrawn): The method of claim 13, wherein photon detector detects photons reflected from the electronic device.

Claim 24 (currently amended): An apparatus for allowing thermal measurements, comprising:

a duct adapted to be physically coupled directly to an electronic device, wherein the electronic device forms one side of the duct; and

a coolant flowing through the duct so as to cool the electronic device, wherein the duct and the coolant are at least partially transparent to photons with wavelengths between about 0.1 micron to 20 microns.

Claim 25 (original): The apparatus of claim 24, wherein the duct allows for the capture of thermal information from the electronic device during operation of the electronic device, wherein the electronic device is operating under conditions for which the electronic device is designed.

Claim 26 (currently amended): A system for allowing measurement of thermal distributions of an electronic device during operation, comprising:

an electronic device; and

a duct adapted to be physically coupled directly to the electronic device, wherein the electronic device forms one side of the duct and the duct is at least partially transparent to photons so as to allow thermal measurement of the electronic device from an exterior of the duct.

Claim 27 (original): The system of claim 26, wherein the duct comprises any one of:

polished silicon;

quartz;

sapphire; and

diamond.

Claim 28 (cancelled)

Claim 29 (new): The system of claim 7, wherein the electronic device includes a protecting outer layer.

Claim 30 (new): The method of claim 19, wherein the electronic device includes a protecting outer layer.

Claim 31 (new): The apparatus of claim 24, wherein the electronic device includes a protecting outer layer.

Claim 32 (new): The system of claim 26, wherein the electronic device includes a protecting outer layer.

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5 of 8

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